## WHAT IS CLAIMED IS:

1. An electrical capacitance-type diaphragm pressure sensor comprising:

a pressure-sensing member having a pressure receiving part formed from non-metallic strip diaphragms provided in opposing relation to each other, with deposited electrodes being formed on the opposing surfaces of the diaphragms, and depositing a metal on the diaphragms; and

a nickel protective layer directly provided on said pressure-sensing member,

wherby a fluid pressure to be sensed is transferred to said pressure receiving part via said nickel protective layer and variations in an amount of a gap between the deposited electrodes formed on the opposing faces of the opposing diaphragms cause changes in capacitance.

- 2. The diaphragm pressure sensor as defined in Claim 1, wherein said pressure-sensing member is provided with a supporting member for installation.
- 3. The diaphragm pressure sensor as defined in Claim 1, wherein the metal deposited on said diaphragm is any metal having a high ionization tendency, and selected from tin, copper, silver and gold.
- 4. A method of fabricating an electrical capacitancetype diaphragm pressure sensor for sensing a fluid pressure comprising the steps of:

providing non-metallic strip diaphragms in opposing

relation and forming deposited electrodes on the opposing faces of said diaphragms, to thereby form a pressure-receiving part of a pressure-sensing member;

depositing a metal on said diaphragms in said pressure-sensing member except for an end part where an electrode output terminal is formed;

installing a soluble flange along the approximate border between said end part and pressure receiving part of said pressure-sensing member;

applying a nickel plating as a protective layer to said pressure receiving part and the periphery of said flange of said pressure-sensing member;

removing said flange except for said nickel-plated protective layer in said pressure-sensing member; and

mounting a supporting member for installation in a region where said flange was removed except for said nickel-plated protective layer.

- 5. The method as defined in Claim 4 further comprising, before the step of applying said nickel plating, the step of covering the end part of the pressure-sensing member where said electrode output terminal is formed with a protective coat, so that a nickel plating solution does not affect the end part.
- 6. The method as defined in Claim 4 or 5 further comprising the step of immersing said nickel-plated protective layer in concentrated nitric acid, to thereby form over the nickel a passive state coat resistant to a strong acid solution.